

**REMARKS**

In the non-final Office Action, dated February 2, 2009, the Examiner objects to claims 6, 7, 10, 22, 25, 37, 38, 40, 51, and 59 as dependent on a base claim but allowable if rewritten in independent form including all the features of the base claim and any intervening claims; objects to claim 15 because of alleged informalities; rejects claims 1, 11-13, 26, 27, and 41 under 35 U.S.C. § 103(a) as allegedly unpatentable over U.S. Patent Application Publication No. 2003/0002670 to Wang (hereinafter "WANG"); rejects claims 2-5, 8, 9, 52-58, and 60-62 under 35 U.S.C. § 103(a) as allegedly unpatentable over WANG in view of U.S. Patent No. 5,157,461 to Page (hereinafter "PAGE"); rejects claims 14-17, 28-32, and 42-44 under 35 U.S.C. § 103(a) as allegedly unpatentable over WANG in view of U.S. Patent No. 6,160,627 to Ahn et al. (hereinafter "AHN"); and rejects claims 18-21, 23-24, 33-36, 39, 45, and 50 under 35 U.S.C. § 103(a) as allegedly unpatentable over WANG in view of AHN and further in view of PAGE. Applicants respectfully traverse these rejections.

By way of this Amendment, Applicants amend independent claim 1 to substantially incorporate the features of claims 2-4 and 6 and to improve form; amend independent claim 11 to substantially incorporate features similar to the features of claims 2-4 and 7 and to improve form; amend independent claim 12 to substantially incorporate features similar to the feature of claims 2-4 and 9-10 and to improve form; amend independent claim 13 to substantially incorporate the features of claims 18-22 and to improve form; amend independent claim 26 to substantially incorporate features similar to the features of claims 18-21 and 24-25 and to improve form; amend independent claim 27 to substantially incorporate the features of claims 33-36 and 38 and to improve form; amend independent claim 41 to substantially incorporate the features of claims 45-47 and 50-51 and to improve form; amend independent claim 52 to substantially incorporate the features of claims 54-55 and 58-59 and to improve form; amend independent claim 60 to substantially incorporate features similar to the features of claims 54-55 and 57 and to improve form; amend independent claim 61 to substantially incorporate features similar to the features of claims 54-55 and 56; amend

independent claim 62 to substantially incorporate features similar to the features of claims 54-55 and 56; amend claims 7, 9, and 15 to improve form; and cancel claims 2-6, 18-25, 33-40, 45-51, and 54-59 without prejudice or disclaimer. Claims 1, 7-17, 26-32, 41-44, 52-53, and 60-62 are pending.

Allowable Subject Matter

At the outset, Applicants note with appreciation the indication of the allowable subject matter of claims 6, 7, 10, 22, 25, 37, 38, 40, 51, and 59.

Objection to the Claims

The Examiner objects to claim 15 because of alleged informalities. Applicants respectfully traverse this objection.

The Examiner alleges that in line 3 of claim 15, the term “training” is missing before the term “symbols” (Office Action, p. 3). While not necessarily agreeing with the Examiner, Applicants have amended claim 15 to address the Examiner’s concern and in order to expedite prosecution. Accordingly, Applicants respectfully request that the objection to claim 15 be reconsidered and withdrawn.

Rejection under 35 U.S.C. § 103(a) based on WANG

Claims 1, 11-13, 26, 27, and 41 stand rejected under 35 U.S.C. § 103(a) as allegedly unpatentable over WANG. Applicants respectfully traverse this rejection.

Applicants have amended independent claim 1 to substantially incorporate the features of claims 2-4 and 6 (now canceled). The Examiner indicated that claim 6 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 1 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 1 under 35 U.S.C. § 103(a) based on WANG be reconsidered and withdrawn.

Applicants have amended independent claim 11 to substantially incorporate features similar to the features of claims 2-4 and 7 (now canceled). The Examiner indicated that claim 7 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3).

Therefore, Applicants believe that claim 11 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 11 under 35 U.S.C. § 103(a) based on WANG be reconsidered and withdrawn.

Applicants have amended independent claim 12 to substantially incorporate features similar to the features of claims 2-4 and 9-10 (now canceled). The Examiner indicated that claim 10 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 12 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 12 under 35 U.S.C. § 103(a) based on WANG be reconsidered and withdrawn.

Applicants have amended independent claim 13 to substantially incorporate the features of claims 18-22 (now canceled). The Examiner indicated that claim 22 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 13 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 13 under 35 U.S.C. § 103(a) based on WANG be reconsidered and withdrawn.

Applicants have amended independent claim 26 to substantially incorporate features similar to the features of claims 18-21 and 24-25 (now canceled). The Examiner indicated that claim 25 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 26 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 26 under 35 U.S.C. § 103(a) based on WANG be reconsidered and withdrawn.

Applicants have amended independent claim 27 to substantially incorporate the features of claims 33-36 and 38 (now canceled). The Examiner indicated that claim 38 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 27 is in condition for immediate allowance. Accordingly, Applicants

respectfully request that the rejection of claim 27 under 35 U.S.C. § 103(a) based on WANG be reconsidered and withdrawn.

Applicants have amended independent claim 41 to substantially incorporate the features of claims 45-47 and 50-51 (now canceled). The Examiner indicated that claim 51 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 41 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 41 under 35 U.S.C. § 103(a) based on WANG be reconsidered and withdrawn.

Rejection under 35 U.S.C. § 103(a) based on WANG and PAGE

Pending claims 8, 9, 52-53, and 60-62 stand rejected under 35 U.S.C. § 103(a) as allegedly unpatentable over WANG and PAGE. Applicants respectfully traverse this rejection.

Pending claims 8 and 9 depend from claim 1. Therefore, Applicants believe claims 8 and 9 are in condition for immediate allowance for at least the reasons set forth above with respect to claim 1. Accordingly, Applicants respectfully request that the rejection of claims 8 and 9 under 35 U.S.C. § 103(a) based on WANG and PAGE be reconsidered and withdrawn.

Applicants have amended independent claim 52 to substantially incorporate the features of claims 54-55 and 58-59 (now canceled). The Examiner indicated that claim 59 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 52 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 52 under 35 U.S.C. § 103(a) based on WANG and PAGE be reconsidered and withdrawn.

Pending claim 53 depend from claim 52. Therefore, Applicants believe claim 53 in condition for immediate allowance for at least the reasons set forth above with respect to claim 52. Accordingly, Applicants respectfully request that the rejection of claim 53 under 35 U.S.C. § 103(a) based on WANG and PAGE be reconsidered and withdrawn.

Applicants have amended independent claim 60 to substantially incorporate features similar to the features of claims 54-55 and 57 (now canceled). Claim 57 recited features similar to features recited in claim 38. The Examiner indicated that claim 38 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 60 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 60 under 35 U.S.C. § 103(a) based on WANG and PAGE be reconsidered and withdrawn.

Applicants have amended independent claim 61 to substantially incorporate features similar to the features of claims 54-55 and 56 (now canceled). Claim 56 recited features similar to features recited in claim 7. The Examiner indicated that claim 7 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 61 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 61 under 35 U.S.C. § 103(a) based on WANG and PAGE be reconsidered and withdrawn.

Applicants have amended independent claim 62 to substantially incorporate features similar to the features of claims 54-55 and 56 (now canceled). Claim 56 recited features similar to features recited in claim 7. The Examiner indicated that claim 7 would be allowable if rewritten in independent form including all the features of the base claim and any intervening claims (Office Action, p. 3). Therefore, Applicants believe that claim 62 is in condition for immediate allowance. Accordingly, Applicants respectfully request that the rejection of claim 62 under 35 U.S.C. § 103(a) based on WANG and PAGE be reconsidered and withdrawn.

Rejection under 35 U.S.C. § 103(a) based on WANG and AHN

Claims 14-17, 28-32, and 42-44 stand rejected under 35 U.S.C. § 103(a) as allegedly unpatentable over WANG and AHN. Applicants respectfully traverse this rejection.

Claims 14-17 depend from claim 13. Therefore, Applicants believe claims 14-17

are in condition for immediate allowance for at least the reasons set forth above with respect to claim 13. Accordingly, Applicants respectfully request that the rejection of claims 14-17 under 35 U.S.C. § 103(a) based on WANG and AHN be reconsidered and withdrawn.

Claims 28-32 depend from claim 27. Therefore, Applicants believe claims 28-32 are in condition for immediate allowance for at least the reasons set forth above with respect to claim 27. Accordingly, Applicants respectfully request that the rejection of claims 28-32 under 35 U.S.C. § 103(a) based on WANG and AHN be reconsidered and withdrawn.

Claims 42-44 depend from claim 41. Therefore, Applicants believe claims 42-44 are in condition for immediate allowance for at least the reasons set forth above with respect to claim 41. Accordingly, Applicants respectfully request that the rejection of claims 42-44 under 35 U.S.C. § 103(a) based on WANG and AHN be reconsidered and withdrawn.

Rejection under 35 U.S.C. § 103(a) based on WANG, AHN, and PAGE

The Examiner rejected claims 18-21, 23-24, 33-36, 39, 45, and 50 under 35 U.S.C. § 103(a) as allegedly unpatentable over WANG, AHN, and PAGE. Applicants have canceled claims 18-21, 23-24, 33-36, 39, 45, and 50, thereby rendering this rejection moot.

**CONCLUSION**

In view of the foregoing amendments and remarks, Applicants respectfully request the Examiner's reconsideration of this application, and the timely allowance of the proposed pending claims.

As Applicants' remarks with respect to the Examiner's rejections are sufficient to overcome these rejections, Applicants' silence as to assertions by the Examiner in the Office Action or certain requirements that may be applicable to such rejections (e.g., whether a reference constitutes prior art, reasons to modify a reference and/or to combine references, assertions as to dependent claims, etc.) is not a concession by Applicants that

such assertions are accurate or such requirements have been met, and Applicants reserve the right to analyze and dispute such assertions/requirements in the future.

If the Examiner believes that the application is not now in condition for immediate allowance, Applicants respectfully request that the Examiner contact the undersigned to discuss any outstanding issues.

In view of the above amendment, Applicants believe the pending application is in condition for allowance.

Applicants believe no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 18-1945, under Order No. BBNT-P02-097 from which the undersigned is authorized to draw.

Dated: May 4, 2009

Respectfully submitted,

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